

DOCUMENT RESUME

ED 220 147

JC 820 401

TITLE Computer Survey of Florida Community Colleges.
INSTITUTION Florida State Dept. of Education, Tallahassee. Div. of Community Junior Colleges.
PUB DATE Aug 82
NOTE 26p.
EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS *Community Colleges; *Computer Assisted Instruction; *Computer Managed Instruction; *Computer Oriented Programs; Computers; *Data Processing; Facility Inventory; *Microcomputers; Questionnaires; State Surveys; Two Year Colleges
IDENTIFIERS *Florida

ABSTRACT

A survey of the 28 Florida community colleges was conducted to determine the type and amount of computer hardware and software used at each college and to obtain colleges' evaluation of their own administrative software. Responses from 27 colleges revealed that: (1) of the 26 colleges with administrative data processing systems, 13 had IBM systems and 8 had Burroughs computer systems; (2) all of the colleges provided data processing instruction, 16 colleges employed computer-managed instruction (CMI), 9 colleges offered computer-assisted instruction (CAI), and 5 colleges used the PLATO system for CAI; and (3) a total of 458 microcomputers were used at the colleges, with none in use at five schools. The bulk of the survey report consists of tables indicating the sites using IBM, Burroughs, and other hardware; the particular software packages that were rated highly for their use with financial, personnel, facilities, library, student/course, and miscellaneous data; hardware used for data processing instruction; CMI and CAI systems used; and the extent of microcomputer use in Florida's community colleges. (F9)

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ED220147

COMPUTER SURVEY
OF
FLORIDA COMMUNITY COLLEGES

DIVISION OF COMMUNITY COLLEGES
BUREAU OF RESEARCH AND INFORMATION SYSTEMS
AUGUST 1982

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COMPUTER SURVEY
OF
FLORIDA COMMUNITY COLLEGES

INTRODUCTION

For the past three years, the Division of Community Colleges has collected and published data on the use of computer technology in the Community College System. The 1982 edition of the survey included information on administrative data processing and instructional computing. Of the 28 community colleges in Florida, one, North Florida Junior College, did not respond to the survey.

SURVEY INSTRUMENT

A three-page survey instrument was used. On it, descriptive data regarding the type and amount of hardware and software used at each college were determined. In addition, each college was requested to evaluate its own administrative software. A copy of the survey instrument and accompanying memorandum is included as Appendix A to this publication.

ADMINISTRATIVE DATA PROCESSING

Of the 27 colleges responding, one, South Florida Junior College, indicated that it has no administrative data processing system. Among the remaining 26 colleges, the systems are divided mainly between IBM (13 installations) and Burroughs (8 installations and two remote users).

The majority of the IBM sites are using 4300/370 type hardware with DOS/VSE operating system software. One exception is Florida Keys Community College which is running SSP on an IBM System/34. Table 1 lists hardware and operating systems used at the IBM sites.

Burroughs users fall into one of two major hardware categories. Four colleges are using B1800/1900 class machines. Three colleges have large-size Burroughs mainframes (4800 - 6700). One college has a midrange B-2930. Table 2 lists hardware and operating systems used at Burroughs sites.

Three other hardware manufacturers are represented in the State Community College System. Chipola Junior College is running a UNIVAC V-77 minicomputer. Although some applications are being run locally, the majority of the administrative processing workload is handled on the large AMDAHL 470 at the Northwest Regional Data Center. The V-77 is, in this case, used as a remote job entry (RJE) station.

Lake-Sumter Community College is running a Data General C/300. The majority of the application programs at this site are written in FORTRAN.

St. Johns River Community College has a Honeywell 2030 for administrative processing used only for batch processing. This college is currently in the process of replacing this system. Table 3 lists hardware and operating systems, other than IBM or Burroughs, currently in use.

ADMINISTRATIVE SOFTWARE

Colleges were asked to identify existing administrative application software and rate it on a scale of one to five, with one being outstanding. Of the 27 colleges responding to the survey, two did not supply a rating for administrative software. The rationale for collecting these data was to provide information to college staff interested in software sharing. Therefore, only that software which was rated on the high end (one or two) is summarized in this report. For persons interested in further detail, the source documents are filed in the Division of Community Colleges in Tallahassee. Data from Central Florida Community College and Lake City Community College are not reported in this section since these colleges are using the Brevard System for all applications. Tables 4 through 9 summarize ratings of administrative application software.

INSTRUCTIONAL COMPUTING

Florida is nationally known for its leadership in instructional computing. Many of the community colleges are active in this area.

All of the 28 colleges are involved in data processing instruction (the computer as an object of instruction; programming) to some extent. Table 10 indicates the hardware being used for instruction at each of the reporting colleges.

It is interesting to note that while IBM and Burroughs monopolize administrative data processing, there is a wide variety of hardware represented on the instructional side.

Computer Managed Instruction (CMI) refers to the use of a computer to manage the instructional process. This includes scoring of machine readable answer forms and on-line testing. Table 11 indicates those colleges which report involvement with CMI.

Computer Assisted Instruction (CAI) refers to the use of the computer to provide instruction. Several different models of CAI are currently being used in Florida community colleges. The PLATO system is used at five community colleges in Florida. PLATO (Programming Logic for Automated Teaching Operation) consists of a massive library of courseware residing on a central computer, linked by telephone lines to terminal clusters around the State. The main system is located at the Florida State University in Tallahassee. Table 12 lists PLATO sites at Florida community colleges.

Other mainframe/terminal systems are also being used for CAI. Table 13 lists those colleges using mainframe CAI (other than PLATO).

Many colleges have started using inexpensive microcomputers for CAI. Colleges reported using a total of 458 microcomputers. Table 14 lists those micro's being used at each of the reporting colleges.

SUMMARY

Florida is indeed a national leader in the use of information technology. The Community College System is involved in a wide variety of computer-related activities. Software sharing and consortia activities have saved taxpayers money and increased the efficiency of the system.

TABLE 1
IBM HARDWARE SITES

College	Mainframe	Operating System
Broward	4341	DOS/VSE
Edison	1130 ¹	--
Fla. JC @ Jacksonville	4341	DOS/VSE
Florida Keys	S/34	SSP
Hillsborough	370/138	DOS/VSE
Indian River	4331	DOS/VSE
Manatee	4341*	DOS/VSE
Miami-Dade	AS/5-3 ²	OS/MVT
Okaloosa-Walton	4331	DOS/VSE
Palm Beach	4341	DOS/VSE
Santa Fe	4341	DOS/VSE
Tallahassee	4331*	DOS/VSE
Valencia	370/138	DOS/VSE

¹ Edison is also on-line to Palm Beach Junior College which provides processing for student records, registration, and financial aid.

² Miami-Dade Community College uses a National Advanced System (Intel) AS/5-3 which is the plug-compatible equivalent of an IBM 370.

* Colleges which share a processor with the local school board.

TABLE 2
BURROUGHS HARDWARE SITES

College	Mainframe	Operating System
Brevard	B4890	MCP
Central Florida*	- -	- -
Daytona Beach	B6810	MCP
Gulf Coast	B1955	MCP
Lake City*	- -	- -
Pasco-Hernando	B1855	MCP
Pensacola	B6700	MCP
Polk	B1955	MCP
St. Petersburg	B2930	MCP
Seminole	B1855	MCP

*These colleges are remote users of the B4890 at Brevard.

TABLE 3
MISCELLANEOUS HARDWARE SITES

College	Manufacturer	Mainframe	Operating System
Chipola	UNIVAC	V-77 ¹	Vortex-II
Lake Sumter	Data General	C/300	RDOS
St. Johns River	Honeywell	2030	MSR

¹ This processor is also used as a RJE station for the AMDAHL 470. (IBM plug-compatible) mainframe at the Northwest Regional Data Center.

TABLE 4
FINANCIAL SOFTWARE

Application	Source Language	College
Accounting	Assembler	Fla. JC @ Jax.
Accounting*	COBOL	Manatee
Accounting	COBOL	Santa Fe
Accounts Payable	COBOL	Santa Fe
Budget Planning*	COBOL	Daytona Beach
Budget Planning	COBOL	Polk
Cost Analysis*	COBOL	Daytona Beach
Cost Analysis	COBOL	Polk
Cost Analysis	COBOL	Valencia
Equipment	COBOL	Manatee
Equipment Inv.	Assembler/COBOL	Fla. JC @ Jax.
Equipment Inv.*	COBOL	Daytona Beach
Equipment Inv.*	COBOL	Miami-Dade
Equipment Inv.*	COBOL	Polk
Financial System*	COBOL	Brevard
Financial System	COBOL	Okaloosa-Walton
Financial System	COBOL	Seminole
Financial System	COBOL	St. Petersburg
Purchasing	COBOL	Santa Fe

* On-Line Interactive

TABLE 5
PERSONNEL SOFTWARE

Application	Source Language	College
Faculty Activity*	Assembler	Fla. JC @ Jax.
Payroll*	COBOL	Brevard
Payroll	COBOL	Chipola
Payroll	FORTRAN	Lake-Sumter
Payroll*	COBOL	Pensacola
Payroll	COBOL	Okaloosa-Walton
Payroll	COBOL	Santa Fe
Payroll*	COBOL	Seminole
Position Control*	COBOL	Brevard
Position Control	COBOL	Daytona Beach

* On-Line Interactive

TABLE 6
STUDENT/COURSE SOFTWARE

Application	Source Language	College
Admissions*	DMS	Tallahassee
Counseling*	COBOL	Brevard
Counseling	Assembler	Fla. JC @ Jax.
Counseling*	COBOL	Manatee
Counseling*	COBOL	Santa Fe
Counseling*	COBOL	Seminole
Counseling*	DMS	Tallahassee
Counseling/Advisement*	COBOL	Miami-Dade
Financial Aid*	COBOL	Chipola
Financial Aid*	COBOL	Daytona Beach
Financial Aid*	Assembler	Fla. JC @ Jax.
Financial Aid*	COBOL	Manatee
Financial Aid*	COBOL	Miami-Dade
Financial Aid*	COBOL	Okaloosa-Walton
Financial Aid*	COBOL	Pensacola
Financial Aid*	COBOL	Polk
Financial Aid*	COBOL	Santa Fe
Financial Aid*	COBOL	Seminole
Financial Aid*	DMS	Tallahassee
Follow-Up	COBOL/MARK IV	Miami-Dade
Follow-Up	COBOL	Okaloosa-Walton
Follow-Up*	COBOL	Pensacola
Non-Credit/CIS*	COBOL	Brevard
Non-Credit/CIS*	Assembler	Fla. JC @ Jax.
Non-Credit/CIS	COBOL	Hillsborough
Non-Credit/CIS	COBOL	Miami-Dade
Non-Credit/CIS	COBOL	Okaloosa-Walton
Non-Credit/CIS*	COBOL	Pensacola
Non-Credit/CIS*	COBOL	Polk
Non-Credit/CIS*	COBOL	Santa Fe
Non-Credit/CIS*	COBOL	Seminole
Non-Credit/CIS*	COBOL	St. Petersburg

* On-Line Interactive

TABLE 6 (Continued)
STUDENT/COURSE SOFTWARE

Application	Source Language	College
Placement/Follow-Up	COBOL	Brevard
Placement/Follow-Up	COBOL	Seminole
Records/Registration*	COBOL	Brevard
Records/Registration*	COBOL	Chipola
Records/Registration*	COBOL	Daytona Beach
Records/Registration*	Assembler	Fla. JC @ Jax.
Records/Registration*	COBOL	Florida Keys
Records/Registration*	COBOL	Hillsborough
Records/Registration*	COBOL	Manatee
Records/Registration*	COBOL	Miami-Dade
Records/Registration*	COBOL	Pensacola
Records/Registration	COBOL	Okaloosa-Walton
Records/Registration*	COBOL	Santa Fe
Records/Registration*	COBOL	Seminole
Records/Registration*	COBOL	St. Petersburg
Registration*	COBOL	Indian River
Scheduling*	DMS	Tallahassee
State/Fed. Reports	COBOL	Chipola
State/Fed. Reports	COBOL	Daytona Beach
State/Fed. Reports*	COBOL	Florida Keys
State/Fed. Reports*	Assembler	Fla. JC @ Jax.
State/Fed. Reports*	COBOL	Manatee
State/Fed. Reports	COBOL	Miami-Dade
State/Fed. Reports	COBOL	Okaloosa-Walton
State/Fed. Reports*	COBOL	Pensacola
State/Fed. Reports	COBOL	Seminole
VA	COBOL	Brevard
VA*	Assembler	Fla. JC @ Jax.
VA	COBOL	Miami-Dade
VA	COBOL	Okaloosa-Walton
VA*	COBOL	Pensacola
VA	COBOL	Santa Fe
VA	COBOL	Seminole

* On-Line Interactive

TABLE 7
FACILITIES SOFTWARE

Application	Source Language	College
Inventory	RPG	Okaloosa-Walton
Inventory	COBOL	Pensacola
Inventory	COBOL	Polk
Inventory*	COBOL	Santa Fe
Inventory	COBOL	Seminole
Space Utilization	COBOL	Okaloosa-Walton
Space Utilization*	COBOL	Pensacola
Space Utilization	COBOL	Seminole

* On-Line Interactive

TABLE 8
LIBRARY SOFTWARE

Application	Source Language	College
Audio-Visual*	COBOL	Daytona Beach
Cataloging*	COBOL	Daytona Beach
Circulation*	COBOL	Daytona Beach
Circulation*	BASIC/COBOL	Miami-Dade
Circulation*	COBOL	Pensacola
Circulation	COBOL	Polk

* On-Line Interactive

TABLE 9
MISCELLANEOUS SOFTWARE

Application	Source Language	College
ACT Scoring	COROL	Manatee
Budget Prep.*	Command COBOL	Valencia
Faculty Test Scoring	COBOL	Manatee
Salary Models	COBOL	Miami-Dade
Testing*	COBOL/FORTRAN	Miami-Dade
Transcripts	COBOL	Miami-Dade

* On-Line Interactive

TABLE 10

HARDWARE USED FOR DATA PROCESSING INSTRUCTION

College	Manufacturer	Model	Comments
Brevard	IBM	360/40, 5100	Also TRS-80's
Broward	Digital Equip.Co.	11/34, 11/750	Also APPLE II's and TRS-80's
Central Fla.	XEROX	520	Also Commodore Micro's
*Chipola	UNIVAC	V77-600	Also TRS-80's
Daytona Bch.	Burroughs	B-771	Also TRS-80's
Edison	IBM	Series 1, 5965	
Fla. JC @ Jax.	Prime	Not reported	
Florida Keys	IBM	1130	Also TRS-80's
*Gulf Coast	Burroughs	B-1955	Also APPLE II's and TRS-80's
Hillsborough	IBM	S/34	Also Various Micros
Indian River	APPLE	II	Also TRS-80's
Lake City	Prime	550	
*Lake-Sumter	Data General	C/300	Also TRS-80's
Manatee	IBM		
Miami-Dade	Digital Equip.Co.	11/10, 11/40, 11/60	Also Intel AS-5 and TRS-80's
North Fla.	Not Reported		
*Okaloosa-Walton	IBM	4331-K	Also APPLE II's and TRS-80's
Palm Beach	IBM	370/138	Also Commodore's
*Pasco-Hernando	Burroughs	B-1855	
*Pensacola	Burroughs	B-6700	Also TRS-80's and Commodore
*Polk	Burroughs	B-1860	Also Wang Micro's
*St. Johns River	Honeywell	2020	Also TRS-80's
St. Petersburg	IBM	S/34-F6, S/34-F5	
*Santa Fe	IBM	4331	Also APPLE II's and TRS-80's
Seminole	Digital Equip.Co.	11/34	Also Apple II's
South Fla.	Not Reported		
*Tallahassee	IBM	4331	
Valencia	WANG	VS-2000	

* Indicates system shared with administrative data processing

TABLE 11
COMPUTER MANAGED INSTRUCTION (CMI)

College	Uses Optical Scanner	On-Line Testing
Chipola		X
Daytona Beach	X	Planned
Florida JC @ Jax.		X
Hillsborough	X	
Lake City	X	X
Manatee	X	
Miami-Dade	X	X
Okaloosa-Walton	X	
Palm Beach	X	
Pasco-Hernando	X	
Pensacola	X	
Polk	X	
St. Petersburg	X	
Santa Fe		X
Seminole	X	X
Valencia	X	

TABLE 12
COMMUNITY COLLEGE PLATO USERS

College	Number of Terminals	Main Applications
Brevard	3	Faculty Development
Florida JC @ Jax.	1	Faculty Development
Palm Beach	4	Chemistry/Physics Instruction
Seminole	12	Basic Skills Instruction
Tallahassee	4	Basic Skills Instruction

TABLE 13

MAINFRAME/TERMINAL
COMPUTER ASSISTED INSTRUCTION (CAI)
(Other than PLATO)

College	Manufacturer	Model
Lake City	PRIME	SS0
St. Petersburg	Digital Equip. Co.	11/34
Seminole	Digital Equip. Co.	11/34
Valencia	IBM	370/138

TABLE 14

MICROCOMPUTERS IN FLORIDA COMMUNITY COLLEGES

College	TRS 80	APPLE II	COMM- ODORE	WANG	North Star	AIM	Heath Zenith	IBM 5100	Total
Brevard	1							1	2
Broward	20	4							24
Central Fla.			12						12
Chipola	5								5
Daytona Bch.	29								29
Edison									
Fla. JC @ Jax.		24							24
Florida Keys	2								2
Gulf Coast	15	6	6		1				28
Hillsborough	20	1							21
Indian River	58	3							61
Lake City									
Lake-Sumter	12								12
Manatee	20	8							28
Miami-Dade	35								35
North Fla.									
Okaloosa-Walton	14	1							15
Palm Beach			38						38
Pasco-Hernando									
Pensacola	46		1						47
Polk				6					6
St. Johns River	8								8
St. Petersburg	3	26							29
Santa Fe	10	10							20
Seminole		8				1			9
South Fla.	2						1		3
Tallahassee									
Valencia									
Total	300	91	57	6	1	1	1	1	458

APPENDIX A

DIVISION OF COMMUNITY COLLEGES

DATA PROCESSING SURVEY



RALPH D. TURLINGTON
COMMISSIONER

STATE OF FLORIDA
DEPARTMENT OF EDUCATION

TALLAHASSEE 32301

LEE G. HENDERSON
DIRECTOR
DIVISION OF COMMUNITY COLLEGES

March 8, 1982

MEMORANDUM

TO: Community College Reports Coordinators
FROM: Harry L. Rudy
SUBJECT: Data Processing Survey

Attached is a copy of a Data Processing Survey Form. This experimental survey is substantially different from past software surveys.

The returns will be studied to determine whether this survey should be conducted in future years. Your comments on the usefulness of this information will be welcome.

The completed form should be returned to the Division by April 30, 1982. Please mail to:

Bureau of Research and Information Systems
Division of Community Colleges
Department of Education
Knott Building
Tallahassee, Florida 32301

Thank you for your cooperation. If you have questions, please call Harry Rudy or David Brightbill at (904) 488-8597 or SUNCOM 278-8597.

dbS

Attachment

cc: Community College Presidents (Memo only)
Community College Data Processing Directors

DIVISION OF COMMUNITY COLLEGES DATA PROCESSING SURVEY

College Name: _____
 Person Responding: _____ Title: _____
 Phone: (____) ____-____ SUNCOM ____-____

I. ADMINISTRATIVE DATA PROCESSING

Mainframe: MFG _____ Model _____
Operating System _____
On-Line Disk Storage: # of Bytes _____
Tape Drives - Density: _____ Tracks: _____
(Please indicate any special preparations required of tapes sent
to your installation.)

Does your data center have communication links to any other centers? Yes ____ No ____

If your answer was YES, please describe.

Primary applications Language Used: _____

Database system used: _____

Teleprocessing monitor used: _____

Number of administrative terminals - Video: _____ TTY: _____
(L) (P)

Other Software Used:	Package	Leased/Purchased
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADMINISTRATIVE SOFTWARE

APPLICATION	BATCH/ON-LINE	LANGUAGE	EVALUATION*
Financial			
Accounting			
Purchasing			
Accts. Payable			
Accts. Receivable			
Budget Planning			
Cost Analysis			
Equipment Inv.			
Personnel			
Payroll			
Position Control			
Faculty Activity			
Student & Courses			
Admissions			
Registration			
Scheduling			
Grades			
Non-Credit/CIS Reg.			
Financial Aid			
Counseling			
Placement			
Follow-Up			
V.A.			
State/Fed. Reports			
Facilities			
Inventory			
Scheduling			
Space Util.			
Library			
Acquisitions			
Cataloging			
Circulation			
Audio/Visual			
Other (Please Specify)			

*Please rate software from 1 - 5 with 1 being outstanding.

II. INSTRUCTIONAL COMPUTING

DATA PROCESSING INSTRUCTION

Mainframe: MFG: _____ Model: _____
 Micros Used - MFG: _____ Number Used: _____

COMPUTER MANAGED INSTRUCTION

Do you have access to an optical scanner? _____
 Do you do on-line testing? _____

COMPUTER ASSISTED INSTRUCTION

Do you use a mainframe for CAI? _____
 MFG: _____ Model: _____
 Are you using terminals connected to another data center for
 CAI? _____ If YES, which one? _____
 Are you using micros for CAI? _____

MFG.	MODEL	NUMBER USED

The Department of Education has recently established an educational technology section. What services could this office provide which would be of help to you?



State of Florida
Department of Education
Tallahassee, Florida
Ralph D. Turlington, Commissioner
Affirmative action/equal opportunity employer

FLORIDA: A STATE OF EDUCATIONAL DISTINCTION. "On a statewide average, educational achievement in the State of Florida will equal that of the upper quartile of states within five years, as indicated by commonly accepted criteria of attainment."

Adopted, State Board of Education, Jan. 2, 1981

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